

# Interagency Workgroup on Air Quality Modeling (IWAQM)

Long Range Transport (LRT)  
Workgroup

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# Long Range Transport Working Group

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# Appendix W

PM Modeling Guidance

O3 Modeling Guidance

FLAG

Single Source Modeling Guidance

IWAQM NFI  
Refined Approaches  
Topic Report

NFI  
Screening Approaches  
Topic Report

IWAQM LRT  
Approaches Report

## Technical Work/Projects

- AWMA extended abstract on photochemical model approaches
- EPA/ENVIRON plume measurement and inert tracer reports
- Others to be identified

# Appendix W updates

- High level information that should be applicable for single source secondary impacts over long term
- Intent is to develop appropriate detail that will be relevant over the long term to minimize the need for future updates
- Increasing technical detail and reflections of the current practice of model application should be in the guidance documents which are more dynamic
- Appendix W will reference modeling guidance documents

# Appendix W

- IWAQM/LRT team responsible for single source secondary impact sections/subsections of Appendix W
  - Visibility and AQRV Section (Chapter 6)
  - Contribute to the following sections:
    - Preamble & background chapters (1 to 5)
    - Model Inputs, Application, and Evaluation chapters (8,9,10)

# Relevant completed technical work

- ENVIRON report on plume measurement field study evaluations: CAMx, CALPUFF, SCICHEM
- EPA/ENVIRON report on long range transport of inert species: many models
- ENVIRON report on LRT proof of concept comparing CAMx and CALPUFF
- EPA additional work on LRT proof of concept (done with CSC): CAMx and CALPUFF
- EPA presentations at AWMA on preliminary SCICHEM and CMAQ comparison (Jim Kelly) and single source approaches in photochemical models (Kirk Baker)
- FLM Consequence Analysis of CALPUFF v6.42

# Next Steps

- Assist development of relevant sections of EPA single source modeling guidance
- Assist EPA with updates of relevant sections of Appendix W
  - Visibility and other AQRV's
  - Meteorological Inputs
- Update relevant components of FLM modeling guidance
  - FLAG
  - Model specific model guidance developed by FLM's to address specific issues of modeling procedures not addressed by FLAG

# Questions?